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A LIST OF MOSSES FROM SANFORD, FLORIDA

S. RAPP

The mosses enumerated in the following list were collected within a radius of ten miles of Sanford, Seminole County, Florida, formerly belonging to Orange County. The writer is under great obligations to Mrs. E. G. Britton for determining critical specimens and for preparing most of the list. For the determination of certain specimens thanks are also due to Dr. Best, Dr. Grout, Prof. Holzinger, and Miss Edith A. Warner; and to Dr. A. LeRoy Andrews for determining the specimens of *Sphagnum* and *Bryum*.

Sanford is situated on the southern shore of Lake Monroe, a tributary of the St. Johns River, and being the entrance of southern Florida is spoken of as "The Gate City of South Florida." The surrounding country is of low elevation and abounds in river-swamps and hammocks; the former with oaks, hickory, *Carpinus*, and other trees, the latter with cypress, ashes, maple, and elms. It is here in the chinks of the cypress where one finds *Fissidens Donnellii*, hidden like the modest violet in the hedges; *Fissidens falcatus* along creeks on exposed roots and logs; *Callicostella scabrida* (*Hookeria Cruceana*) on logs; *Climacium americanum*, *Amblystegium floridanum*, *A. varium*, and *A. riparium*. On drier situations in the adjoining hammock another dwarf moss, *Fissidens Garberi*, occurs on live oak, together with the glossy *Entodon Drummondii*, *Brachythecium splendens*, and *Forstroemia trichomitria*. The variety *immersa* of the latter species occurs together with *F. floridanum* mostly on elm.

Cyclodictyon varians is a mud-inhabiting species with *Eurhynchium hians*. On borders of swamps and dried-up ponds occurs *Ephemerum megalocarpum*, also *E. spinulosum* and *E. papillosum*. *Campylopus inflexus*, *C. gracilicaulis*, *C. Donnellii*, and *C. angustiretis* are found on sandy banks together with *Funaria hygrometrica*, the very common var. *patula*, also *F. flavicans*, *F. calvenscens*, the rare *F. serratum* and single plants of *F. americanum*. Here also are found *Bruchia Donnellii* and *B. Ravenellii*.

For data concerning the habitats of certain other species at Sanford see Mrs. Britton's article in a former number of THE BRYOLOGIST (21: 27-28. March, 1918). It may be added that *Dicranella curvata* (*D. secunda*) has been collected in Jacksonville, and *Ectropothecium caloosiense* and *Fontinalis bififormis* in Tampa, Florida.

LIST OF SPECIES

- | | | |
|--|--|-----|
| <i>Amblystegium floridanum</i> R. & C. | (<i>A. riparium</i> var. <i>floridanum</i>). | 1 |
| " | <i>hygrophilum</i> (Jur.) Schimp. | 2 |
| " | <i>iriguum</i> Bry. Eur. (<i>H. tenue</i> (Hedw.) Card.)? | 102 |
| " | <i>riparium</i> (L.) Br. & Sch. | 3 |
| " | <i>vacillans</i> Sull. | 5 |
| " | <i>varium</i> (Hedw.) Lindb. | 4 |
| <i>Anomodon attenuatus</i> (Schreb.) Hueb. | | 6 |

- Archidium alternifolium* H. & F. 118
 " *Donnellii* Aust. 123
 " *Hallii* Aust. 87
 " *ohioense* Br. & Sch. 111
 " *Ravenellii* Aust. 8
 " *tenerrimum* Mitt. 105
Aulacomnium palustre (L.) Schwaegr. 7
 " " var. *polycepalum* (Brid.) Hueb. 96
Barbula agraria Hedw. (*B. Rauii* Aust.). 9
 " *convoluta* Hedw. Sterile. 83
Brachymenium Wrightii (Sull.) Broth. (*Leptotheca Wrightii* Sull.) 88
Brachythecium splendens Aust. (*B. biventreosum* (C. M.) Jaeg.) 17
Bryum argenteum L. 106
 " " var. *lanatum* (P. Beauv) Br. & Sch. 12
 " *caespiticiu*m L. 71
 " *capillare* L. 89
 " *coronatum* Schwaegr. 14
 " *Cruegeri* Hampe. Probably. 46 (sterile).
 " *floridanum* R. & C. 13
 " *Sawyeri* R. & C. 15
Bruchia Donnellii Aust. 18
 " *Ravenellii* Wils., Sull. 104
Callicostella scabrida (Hook.) Jaegr. (*Hookeria Cruceana* Duby.) 52
Campylium chrysophyllum (Brid.) Bryhn. Forma. 41
 " *polygamum* (Schimp.) Bryhn. 92
 " *radicale* (P. Beauv.) Grout. 43
Campylopus introflexus (Hedw.) Mitt. 22
 " *angustiretis* (Aust.) L. & J. 93
 " *Donnellii* (Aust.) L. & J. 85
 " *gracilicaulis* Mitt. 84
Catharinaea angustata Brid. 19 (sterile)
Ceratodon purpureus Brid. 124
Clasmatodon parvulus (Hampe) Sull. 21
 " " var. *rupestris* Sull. & Lesq. 21
Climacium americanum var. *fluitans* (Hueb.). 20
Cryphaea glomerata Br. & Sch. 37
Cyclodictyon varians (Sull.) Broth. (*Hookeria varians* Sull.) 51
Dicranella heteromalla (Dill.) Schimp. 25
 " " var. *orthocarpa* (Hedw.) Paris. 122
 " *l'Hermieri* Besch (*D. leptotrichoides* R. & C.) 24, 95
 " *secunda* (Sw.) Lindb. (*D. curvata* (Hedw.) Schimp.) 81
 " *subinclinata* Lorentz. 119
Dicranum pallidum Br. & Schimp. (*D. sabuletorum* R. & C.) 23
Ditrichum pallidum (Schreb.) Hampe. 76
Ectropothecium caloosiense (Aust.) E. G. Britt. 117

- Entodon Drummondii* (Br. & Sch.) Jaegr. 26
 " *seductrix* (Hedw.) C. M. 27
 " " var. *minor* (Aust.) Grout. 16
Ephemerum megalosporum (Aust.) Salm. 29
 " *papillosum* Aust. 112
 " *spinulosum* Schimp. 30
Eurhynchium hians (Hedw.) Lindb. 28
Fissidens decipiens DeNot. 31
 " *Donnellii* Aust. 116
 " *falcatus* R. & C. 107
 " *Garberi* Lesq. & James. 34
 " *Ravenellii* Sull. 33
Fontinalis bififormis Sull. 108
Forsstroemia floridanus (Lindb.) Kindb. 47
 " *trichomitria* (Hedw.) Lindb. 38
 " " var. *immersa* (Sull.) Lindb. 78
Funaria flavicans Rich., Michx. 36
 " *hygrometrica* (L.) Sibth. 101
 " " var. *calvescens* (Schwaegr.) Bry. Eur. 109
 " " " *patula* Br. & Sch. 35
 " *serrata* Brid. 89
Haplocladium microphyllum (Sw.) Broth. 67
Homalotheciella subcapillata (Schwaegr.) Card. (*Hamalothecium subcapillatum*
 (Schwaegr.) Sull.) 99
 " " var. **fabronifolia** E. G. B., new var. (*Burnellia*
fabrofolia Grout). 90
Hypnum Patentiae var. *americanum* (R. & C.). (*H. arcuatum* var. *americanum*
 R. & C.) 39
Isopterygium micans (Sw.) E. G. B. (*Hypnum micans* Sw.) BRYOL. 5: 67.
 1902.
 " " var. **fulvum** (Hook.) E. G. B., n. comb. (*Plag. micans*
 var. *fulvum* (Hook.) Par.)
Jagerinopsis squarrosa E. G. Britt. 11
Leptobryum pyriforme (L.) Schimp. 86
Leskea denticulata Sull. 82
 " *microcarpa* Schimp. 48
Leucobryum albidum Brid. (*L. sediforme* C. M.) 45
Leucodon julaceus (L.) Sull. 44
Macromitrium mucronifolium (Hook. & Grev.) Schwaegr. 97
 " *rhabdocarpum* Mitt. 121
Mittenothamnium diminutivum (Hampe) E. G. Britt. (*Hypnum thelistegium*
 C. M.) 95
Mnium cuspidatum (L.) Leyss. 49
Neckera jamaicensis (Gmel.) E. G. Britton. (*N. undulata* Hedw.) 50
 " *distichia* (Sw.) Hedw. 91

- Nanomitrium synoicum* (James) Lindb. 100
 " *Austini* (Sull.) Lindb. 120
Octoblepharum albidum (L.) Hedw. 53
Octodiceras fontanum (LaPyl.) Lindb. (*O. Julianum* Brid.) 94
Papillaria nigrescens (Sw.) Jaegr. 54
Philonotis longiseta (Michx.) E. G. B. (*P. radicalis* (P. Beauv.) Brid.) 11
Pirella cymbifolia (Sull.) Card. (*Pilotrichum cymbifolium* Sull. 79
Physcomitrium australe E. G. Britt., var. 115
 " *megalocarpum* Kindb. 114
 " *turbinatum* (Michx.) Brid. 56
 " " *Langloisii* (R. & C.) E. G. Britt. 103
Plagiothecium denticulatum (L.) Br. & Sch. 32
Pogonatum brachyphyllum (Michx.) P. Beauv. 55
Polytrichum commune L. 57
Rhizogonium spiniforme (L.) Bruch. 61
Rhynchostegium serrulatum (Hedw.) Jaegr. 60
Schlotheimia Sullivantii C. M. 62
Sematophyllum adnatum (Michx.) E. G. Britt. (*Rhaphidostegium microcarpum*
 (Brid.) Jaegr.) 58
Sematophyllum subpinnatum (Brid.) E. G. Britt. (*Rhaphidostegium Kegelianum*
 var. *floridanum* R. & C.) 59
Sphagnum cuspidatum var. *serrulatum* Schimp. 21
 " *cyclophyllum* Sull. & Lesq. 27
 " *erythrocalyx* Hampe. 3
 " *Fitzgeraldi* Renauld. 22. Collected in fruit!
 " *magellanicum* Brid. 1
 " *macrophyllum* Bernh. (*S. floridanum* Card.) 28. In fruit!
 " *palustre* Ehrh. 4
 " *recurvum* Beauv. 17
 " *strictum* Sull. 9
 " *subsecundum* forma Nees. 25
 " *tabulare* Sull. (*S. molle* Sull.) 39
 " *tenerum* Sull. & Lesq.
Splachnum ampullaceum Su l. & Lesq. 72
Syrrophodon floridanus Sull. 63
 " *texanus* Sull. 64
Taxithelium planum forma? (?) 42 Sterile!
Thelia asprella Sull. 66
 " *hirtella* (Hedw.) Sull. 65
Tortella caespitosa (Schwaegr.) Limpr. 10
Thuidium delicatulum (L.) Mitt. 68
 " *gracile* var. *Ravenellii* (S. & L.) Card. 70
 " *involverens* (Hedw.) Mitt. 80
 " *minutulum* (Hedw.) Br. & Sch. 69.
Trematodon longicollis Michx. 73

- Weisia longiseta* Lesq. & James. 77
" *viridula* (L.) Hedw. 75
" " var. *nitida* R. & C. 74
SANFORD, FLORIDA.

NOTES ON NORTH AMERICAN HEPATICAE—VIII¹

ALEXANDER W. EVANS

(WITH PLATE II)

In a recent paper on New England Hepaticae² the writer discussed three species of *Nardia* (*N. hyalina*, *N. obovata* and *N. obscura*) and called attention to the discovery of *N. subelliptica* in Nova Scotia, this species being an addition to the American flora. In the present paper *N. subelliptica* and two other species of *Nardia*, *N. fossombronioides* and *N. rubra*, are considered; *N. fossombronioides* is an eastern species, which is perhaps to be expected in New England, while *N. rubra* is confined to the Pacific Coast region. The paper reports further two additions to the flora of the United States, *Petalophyllum Ralfsii* (which is new also to America) and *Leptocolea cardiocarpa*. The five remaining species are introduced for various reasons but mainly to record extensions of range or to help clear up difficulties in nomenclature.

Since the appearance of the seventh number of this series³ an important article has been published by Arnell on the mosses of the Vega Expedition.⁴ Most of the species considered came from Nova Zembla or Siberia but a few had been collected at Port Clarence or on St. Lawrence Island, Alaska. These include the following additions to the hepatic flora of the territory: *Cephalozia pleniceps*, *Cephalozia striatula*, *Lophozia barbata*, *L. Binsteadii*, *L. Kaurini*, *Pleuroclada albescens*, and *Scapania subalpina*. In the writer's report on the Hepaticae of Alaska,⁵ published in 1915, 105 species are recorded. Adding to these *Harpanthus Flotowianus* (which was omitted by mistake), *Asterella Lindenbergiana* (which has recently been reported in another paper),⁶ and the seven species listed by Arnell, the total number of species now known from Alaska is increased to 114.

I. COR SINIA CORIANDRINA (Spreng.) Lindb. Hepat. Utveckl. 30. 1877. *Riccia reticulata* Gmel.; Linnaeus, Syst. Nat. ed. 13, 3: 1355. 1796 (not *R. reticulata* Sw., 1788). *R. coriandrina* Spreng. Anleit. 3: 320. 1804. *Corsinia marchantioides* Raddi, Opusc. Sci. Bologna 2: 354. 1818. *Tessellina coriandrina* Dumort. Comm. Bot. 78. 1822. *Corsinia reticulata* Dumort. Hep. Eur. 166. 1874.

¹ Contribution from the Osborn Botanical Laboratory.

² *Rhodora* 21. 1919. *In press*.

³ *Bryologist* 20: 17-28. pl. 2. 1917.

⁴ *Arkiv för Botanik* 15^a: 1-111. 1917.

⁵ *Bull. Torrey Club* 41: 577-626. pl. 21. 1915.

⁶ *Contr. U. S. Nat. Herb.* 20: 284. 1919. *In press*.